

a¹ 7. (Amended) The balance system of claim 5, further comprising a rotating counterweight, wherein the rotating counterweight is at least one of coupled to a portion of the crankshaft and integrally formed as a portion of the crankshaft.

a² 9. (Amended) The balance system of claim 1, wherein the pin is substantially parallel to a central axis of the crankshaft, and wherein the groove is at least one of substantially parallel to a piston axis along which a piston reciprocates within an engine, substantially perpendicular to the central axis, within a plane perpendicular to the central axis, and within another plane formed by the central axis and the piston axis.